

Roll No.

[2]

Unit—III

D—3857

B. C. A. (Part III) EXAMINATION, 2020

Paper Fifth

COMPUTER OPERATING SYSTEM

(303)

Time : Three Hours]

[Maximum Marks : 100

[Minimum Pass Marks : 40

Note : Attempt any *two* parts from each Unit. All questions carry equal marks.

Unit—I

1. (a) Describe the operating system as a resource manager.
- (b) What do you mean by device management and information management in operating system ?
- (c) Write short notes on the following :
 - (i) Multiprogramming
 - (ii) Real Time System

Unit—II

2. (a) Explain FCFS and RR scheduling algorithm with example.
- (b) What is Process Control Block ? Explain with suitable example.
- (c) Discuss any *one* scheduling algorithm in detail.

3. (a) What do you understand by memory management ? Discuss with suitable example.
- (b) What do you mean by Paging ? Explain with suitable example.
- (c) Discuss the features of scheduling.

Unit—IV

4. (a) Specify continuous and index allocation methods with example.
- (b) Write the feature of free space management.
- (c) Discuss file concept and its general model.

Unit—V

5. (a) Discuss the methods of deadlock prevention.
- (b) Highlight Banker's algorithm for deadlock protection.
- (c) Specify process termination and resource pre-emption in deadlock recovery.

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